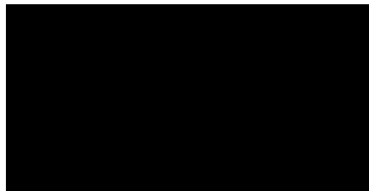


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Final Specifications for the construction of
a Power House building located at



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S P E C I F I C A T I O N S

1. PROJECT

a) Construction of a Power House building 61' long 25'8" wide and 13' 8" high (all outside dimensions). This building will be connected with the present Power House as indicated on the drawing # 102.2 (attached).

b) Modification of the existing Power House.

2. LOCATION



3. GENERAL

These specifications supplement the general conditions and shall form a part of the contract and all subcontracts.

4. EXAMINATION OF THE SITE

The Contractor shall visit the site of the work and thoroughly familiarize himself with all existing conditions before submitting his bid. No increase in cost or extension in performance time will be considered for failure to know the site conditions.

5. STORAGE OF MATERIAL

The supervisor of the construction will assign to the Contractor allowable areas for the storage of material and use by the workmen, and the Contractor shall keep his material and equipment strictly within the limits assigned to him. Material shall be stored so as to cause no obstructions. The Contractor shall keep the responsibility for protecting his material and equipment.

6. LIGHT, WATER, POWER

The Contractor may use water and power from the existing buildings. Any temporary lighting, power, and water service required for construction purposes, shall be removed by the contractor at the completion of the work.

7. SANITARY FACILITIES

The Contractor shall keep the toilet room, which shall be assigned to him to be used by his workmen, clean and in sanitary condition.

8. REMOVAL OF SURPLUS MATERIAL

At the completion of the work the contractor shall remove all equipment, surplus material construction, debris, and rubbish of

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every sort, and leave the premises in clean, neat and orderly condition.

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9. SECURITY CHECK AND WORKING HOURS

a) The Contractor will be obliged to give at the office of the [REDACTED] a list with all the names of the workers who are going to work at [REDACTED] for the completion of this project.

b) The work will start as soon as security check is received.

c) Names which are not listed on the above mentioned list will not be allowed for entry unless the Contractor asks approval at least one week in advance.

d) All the workers will stop at the main gate where they will take a special pass for entry which will be turned back to the guard when they leave the area.

e) Working hours will be set from 07.30 to 16.30, Monday through Saturday.

CONSTRUCTIONS

1. EXCAVATION, FILLING AND BACK FILLING FOR BUILDING CONSTRUCTION

Excavation shall be performed according to the dimensions indicated on approved drawings. The surface shall be graded accurately according to the drawings so that the dimension will not be less than specified. Excavation products shall be used to fill the differences in elevation on floors, surplus material shall be moved away.

11. CONCRETE

1. Applicable Codes

a) [REDACTED] for design and construction of reinforced concrete (dated 18 February 1954)

b) American Concrete Institute Code (31 August 1956)

2. MATERIALS OF CONCRETE

a) Portland cement shall be of [REDACTED] manufactured by [REDACTED]

b) The proportion of materials to be used shall be as follows:
0.84 M3 of gravel
0.42 M3 of sand and
300 kgs of cement

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c) Mixing shall be accomplished by a mechanical mixer. Concrete shall be compacted by mechanical vibrators. Before placing concrete, the reinforcement shall be checked by supervisor and all embedded items shall be located. Forms shall be wetted and oiled prior to placing of concrete.

3. COLUMNS AND BEAMS

The building will be supported by 14 reinforcing columns size 30 cm x 30 cm. (footing 1 m x 1 m). All columns will be connected with reinforcing beam size 30 cm x 60 cm (drawing No. 102-4)

4. FOUNDATION

Concrete strip 20 cm. thick by 30 cm wide shall be placed as support foundation of the main walls.

5. FORMS

Forms shall be of such design and construction as to be able to carry safely the weight of the concrete, to resist the stresses of placing and vibrating without any leakage or deformation. They should be true to line and level and shall conform exactly to dimensions of the drawings. Forms shall be removed only with the approval of the supervisor.

III. CONCRETE BLOCKS

a) Concrete blocks shall be used for the construction of the exterior walls and inside partition walls, standard size 38 cm x 18 cm x 18 cm.

IV. MORTAR

Mortar for concrete block walls shall be composed of one part cement, one part hydrated lime and 2.5 parts of clean sand, all proportions by volume. First layer of mortar for plaster work shall be cement mortar composed of one part of cement and three parts of rough sand.

V. FLOORS

a) Gravel 5 cm thick shall be used for the floor sub-base. Plain concrete 4" thick shall be used for the floor with terrazzo top. Floor shall be leveled and smooth.

b) New floor and existing floor shall be at the same level.

VI. ROOF

Reinforcing concrete roof 12 cm thick (reinforcing drawing No. 102-4) with a slope of one percent to the 12 slab during

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the construction. Before application of the water proofing material, all holes, points and cracks shall be filled flush with cement mortar and high spots shall be ground smooth. Five openings 8" diameter for the exhaust of the generators shall be provided as per the instruction of the supervisor of the construction. } *willy thru the roof?*

VII. WATER PROOFING

Water proofing shall be asphalt, two coats of which shall be given to the roof slab.

Surfaces to receive waterproofing shall be clean and dry before waterproofing is applied. The surfaces to be covered shall be carefully swept to remove all foreign matter and will be inspected by the supervisor. A layer of sand shall be spread on the top of the asphalt coat.

VIII. FLOOR TRENCHES

Floor trenches 12" wide 12" deep as are indicated on the drawing (No. 102-3) shall be constructed with finish cement coat. Trenches will be covered with steel plates 1/8" thick. Metal lip on edge of trench.

IX. PLASTERING

a) All the walls inside and outside will be plastered to match in appearance with the existing Power House.

b) Walls will be plastered and finished with marble dust. *exterior?*

X. GENERATOR BASES

Five concrete bases shall be constructed size 10" long 4' wide and 1' 8" depth. Top of base will be flush with the floor level, 1/2" opening around the base which will be filled with tar or cork. Mounting bolts will be installed as per the instructions of the supervisor of the construction. Location of the bases as indicated at drawing No.(102-2) } *any water problem?*

XI. OPENINGS

Five openings 6' x 8' shall be placed on the long right side of the building. These openings will be covered with decorative blocks as indicated on the drawing No. (102-1).

XII. LOUVRES

Steel louvres shall be placed in as indicated in the approved drawings No. (102-3).

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XIII. STEEL DOORS

Two steel doors rolling type with vertical and horizontal steel frame commercial grades by 120 mm covered both sides with sheet metal 2 mm thickness. Size of doors 9' x 8' 3" x 1". Door shall accurately fit respective frames and shall roll freely without springing or binding. Sound installation will be provided.

XIV. LINTELS

Concrete beam shall be used for lintels with 4 bars 6 mm diameter. The length of the lintels shall be 20 cm longer from each side of the window or door openings and shall be equal to the width of the walls.

XV. GUTTERS AND CONCRETE PROTECTION OF THE WALLS

Gutters will be installed to protect the building from raining water and concrete strip 10 cm thick 30 cm wide shall be placed around the building to protect the outside walls of the building.

XVI. WINDOWS

Two windows shall be placed in control room size 5' x 4' with double glasses and wooden frame.

XVII. MODIFICATION OF THE EXISTING POWER HOUSE

All the existing generator bases shall be broken off and the floor level shall be smooth and level with the new floor.

XVIII. PAINTING

No painting will be done by the Contractor.

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XIX. LIGHTS

Lights will be installed by [REDACTED]

XX. GENERAL

1) Protection of Trees

The Contractor shall give special instructions to his workers for the protection of trees and shrubs during the construction.

2) Inspection

All the work covered by this agreement shall be performed under the direct supervision of the Contracting Officer or his representative, properly designated by him, hereinafter referred to as

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the supervising officer ~~from~~. The presence of absence of the Supervising officer from the project in no way releases the Contractor from any of his obligations.

3) Time of Completion of the Work

The Contractor undertakes the responsibility to complete the work within 100 calendar days from the effective date of this project (agreement).

4). Penalty

In the event all above stated work is not completed within the agreed period of time stated above and the delay is the responsibility of the contractor, then the contractor is subject to a penalty of [REDACTED] per day for each day of delay after the termination date of the agreement.

5) Partial Payments

In consideration of all work under this agreement, the American [REDACTED], agrees to pay the Contractor a total of [REDACTED] in the following amounts:

- 20% on acceptance of this agreement
- 10% when excavation, foundation, column footings, are completed
- 30% when skeleton building is completed
- 20% after the completion of the walls, windows, doors and concrete floor.
- 20% upon completion.

6) Guarantee

All work under this contract is guaranteed for a period of five years and the Contractor will be obliged to repair any defects at his own expense, provided however, that such defects are not caused by fault or negligence of the [REDACTED] and its employees.

Date

Contractor

Date

Contracting Officer